

Patent Abstracts of Japan

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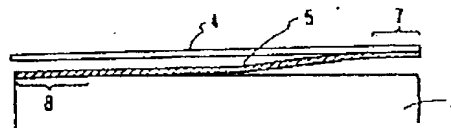
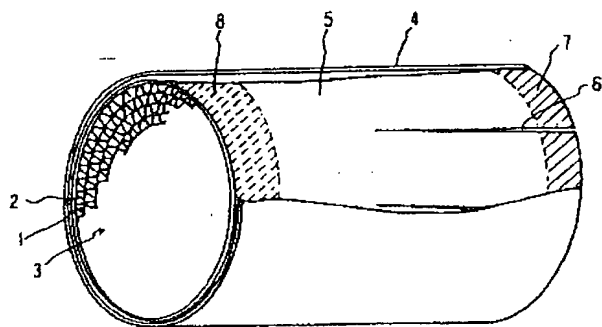
APPLICATION DATE : 11-05-89
APPLICATION NUMBER : 01116137

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TITLE : METAL SUBSTRATE FOR
AUTOMOBILE EXHAUST GAS
PURIFICATION CATALYST,
EXCELLENT IN THERMAL FATIGUE
RESISTANCE



ABSTRACT : PURPOSE: To prevent a joint part between an outer cylinder and a honeycomb body from peeling off, by disposing an intermediate cylinder formed therein with several slits, between the outer cylinder and the honeycomb body, and by joining both end parts of the intermediate parts, alternatively to the outer cylinder and the honeycomb body, respectively.

CONSTITUTION: A metal carrier is formed by disposing an intermediate cylinder 5 as a thermal strain absorbing plate between a cylindrical honeycomb body 3 which are formed by superposing a metal plain foil and a metal corrugated foil 2 with each other, and a stainless steel outer cylinder 4. In this arrangement, several slits 6 are formed in the intermediate cylinder 5, extending axially from its one end. Further, the intermediate cylinder 5 is joined, at the outer surface of one end part thereof on the slit 6 side, to the inner surface of the outer cylinder, and at its inner surface of the other end part, to the outer surface of the honeycomb body 3. With this arrangement, even though a difference in thermal expansion between the outer cylinder 4 and the honeycomb body 3 occurs due to an abrupt cooling cycle so that a thermal strain is propagated, this thermal strain may be effectively absorbed by the slits 6 in the intermediate slits 6 or the like.

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